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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

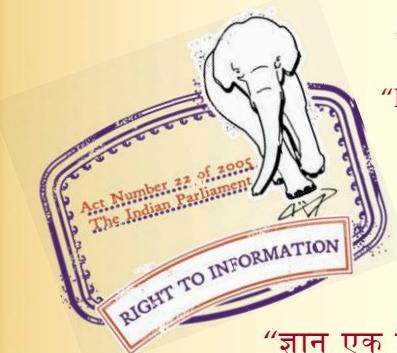
“Step Out From the Old to the New”

IS 12164 (1987): Log Tongs [FAD 21: Farm Implements and Machinery]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaran Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard
SPECIFICATION FOR LOG TONGS

1. Scope — Specifies material, dimensions and other requirements of log tongs used for lifting, dragging and loading of logs.

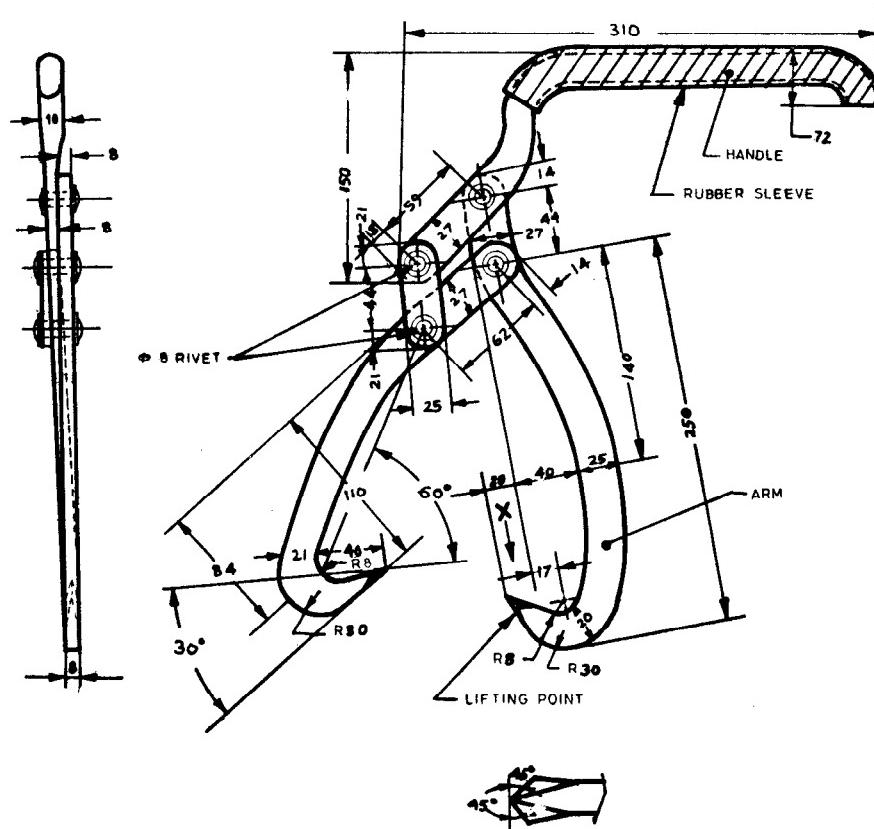
2. Material — Shall be made of suitable steel in hardened and tempered conditions meeting the requirements given in 2.1. Suitable composition of the material is:

Carbon	0·4 to 0·6 percent
Silicon	0·35 percent, <i>Max</i>
Manganese	0·5 to 0·9 percent
Sulphur	0·05 percent, <i>Max</i>
Phosphorus	0·05 percent, <i>Max</i>

2.1 Hardness = 35 to 42 HRC.

2.2 The handle shall be provided with suitable rubber sleeve of thickness 2 mm. *Min.*

3. Shape and Dimensions — Shall be as shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 LOG TONG

3.1 Tolerance on the dimensions shall be 'very coarse class' specified in IS : 2102 (Part 1)-1980 'General tolerances for linear and angular dimensions (second revision)'.

4. Other Requirements — The tongs shall not deform and the rivets shall not break when a load of 100 kg is applied.

5. Workmanship and Finish

5.1 The tongs shall be well forged to shape and finished smooth. They shall be free from burrs, pits, sharp edges, cracks and other defects. All sharp corners shall be removed.

5.2 The tongs shall open freely at the joint.

5.3 The tongs shall be coated with rust proof coatings or grease.

6. Designation — Log tongs shall be designated by its name and the number of this Indian Standard as:

Log tong IS : 12164-1987

7. Marking — Shall be marked with the manufacturers' name or registered trade-mark, if any and the batch or code number.

7.1 Standard Marking — Details available with the Bureau of Indian Standards.

8. Packing — Shall be as agreed to between the manufacturer and the purchaser.

9. Sampling — Unless otherwise agreed to between the supplier and the purchaser, the sampling plan and criteria for conformity shall be as given in Appendix A.

APPENDIX A

(Clause 9)

SAMPLING PLAN AND CRITERIA FOR CONFORMITY

A-1. Scale of Sampling

A-1.1 Lot — In any consignment all the tongs of the same grade and nominal size manufactured under similar conditions of manufacture shall be grouped together to constitute a lot.

A-1.2 For ascertaining the conformity of the lot to the requirements of this specification, tests shall be carried out separately on each of the tong selected from each lot. The number of tongs to be selected at random from a lot shall be in accordance with col 1 and 2 of Table 1. To ensure the randomness of selection, the procedure as laid down in IS : 4905-1968 'Methods for random sampling' shall be followed.

TABLE 1 SAMPLING SIZE AND PERMISSIBLE NUMBER OF DEFECTIVES

Lot Size (1)	Sample Size (2)	Permissible No. of Defectives (3)
Up to 50	5	0
51 to 150	8	0
151 to 300	13	1
301 to 500	20	2
501 and above	32	3

A-2. Number of Tests and Criteria for Conformity

A-2.1 The tongs selected according to A-1.2 shall be examined for material (see 2), dimensions (see 3) and general requirements (see 4 and 5). Any tong failing to meet the requirements for any one or more of the characteristics mentioned above shall be declared defective.

A-2.1.1 The lot shall be considered conforming to the requirements of the characteristics specified in A-2.1 if the number of tongs found defective is less than or equal to the corresponding number given in col 3 of Table 1.

EXPLANATORY NOTE

Log tongs are used for lifting, dragging and loading of small and medium size logs.

In the preparation of this standard, assistance has been derived from Logging Development Division, Forest Research Institute and Colleges, Dehra Dun.